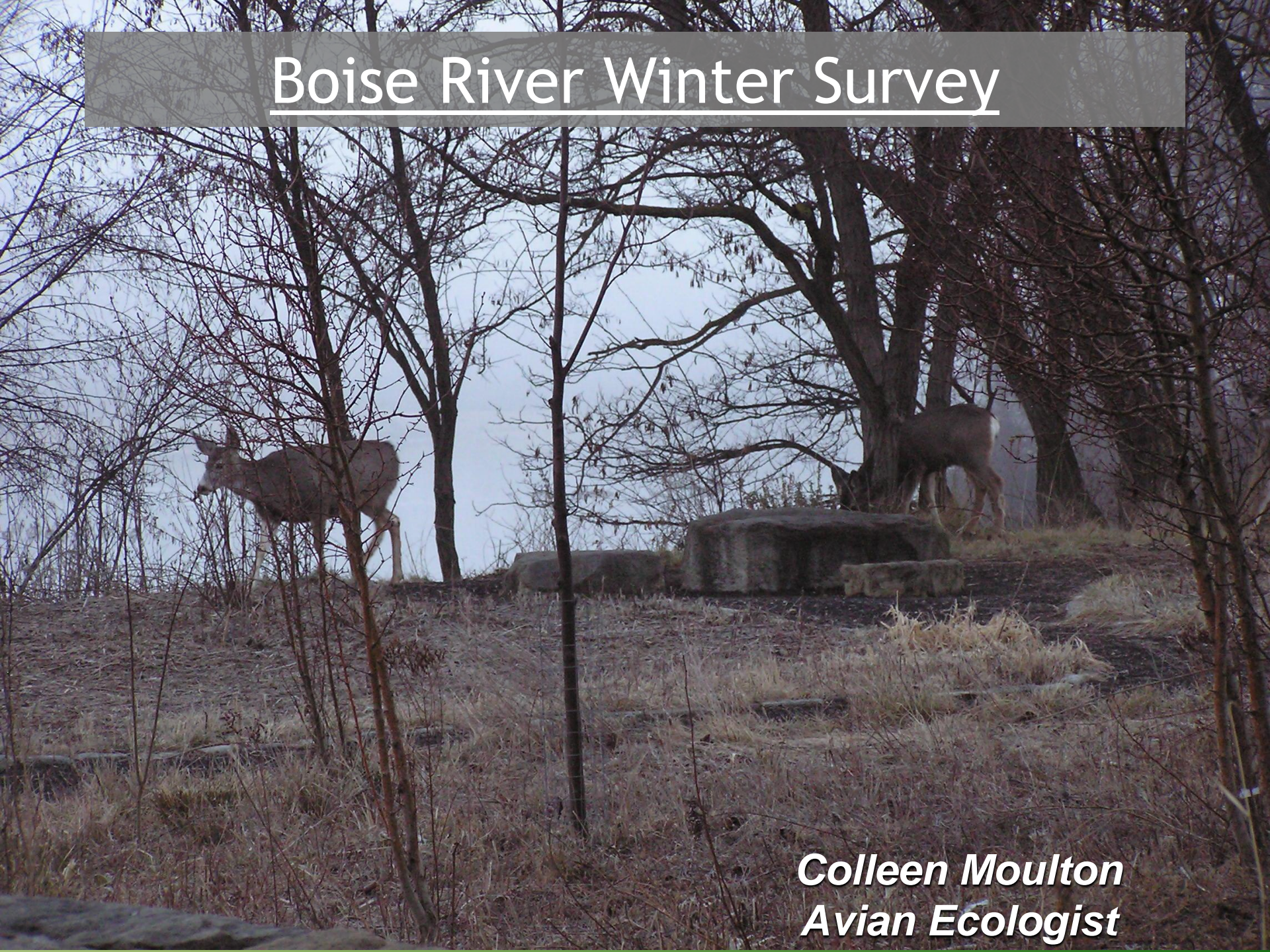


# Boise River Winter Survey



*Colleen Moulton*  
*Avian Ecologist*



# Aquatic Bird Survey

- Objective: Estimate bird abundance and composition
- Method: Count all aquatic birds (ducks, geese, herons, etc.) along previously designated route
  - Same route, direction, and time
  - Careful to avoid double-counting individuals
  - Only stop long enough to count birds present (i.e., not a point count)

# Boise River

- Seven survey sections between Discovery Park and Glenwood
- Target: at least 1 survey/month from November thru March
  - Same time/week each month
  - Monthly, Biweekly, or Weekly (multiple “teams”)





Glenwood

Veterans

Americana

Boise

Park Center

Barber

Discovery

0 1,400 2,800 5,600 Meters



# Boise River

- Seven survey sections between Discovery Park and Glenwood
- Target: at least 1 survey/month from November thru March
  - Same time/week each month
  - Monthly, Biweekly, or Weekly (multiple “teams”)

# Last Year's Effort - # Surveys

	<u>November</u>	<u>December</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>Total</u>
Americana Section	0	3	3	3	3	<b>12</b>
Barber Section	3	3	4	4	3	<b>17</b>
Boise Section	2	3	2	2	3	<b>12</b>
Discovery Section	1	4	3	1	1	<b>10</b>
Glenwood Section	2	4	4	3	4	<b>17</b>
Park Center Section	2	3	3	3	2	<b>13</b>
Veterans Section	1	2	2	0	2	<b>7</b>
<b>Total Surveys</b>	<b>11</b>	<b>22</b>	<b>21</b>	<b>16</b>	<b>18</b>	<b>88</b>

# Last Year's Effort - Hours and Mileage

	Donated Hours	Vehicle Mileage
November	67	318
Training	93	298
December	90.75	472
January	80	391
February	89.5	402
March	76.75	378
Grand Total	502	2259

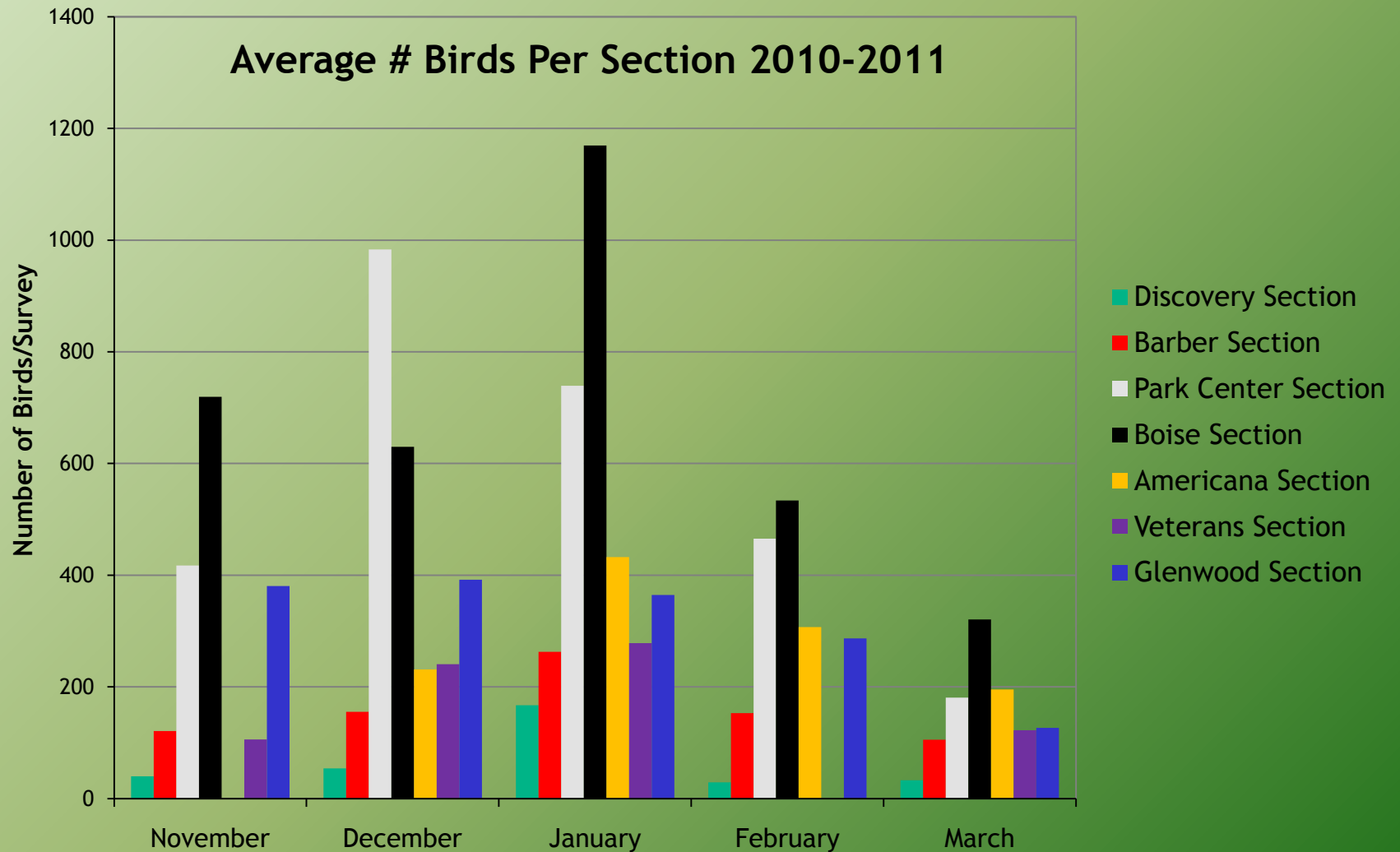
**Estimated Value: \$13,087 !!**

## Last Year's List: 27 Species

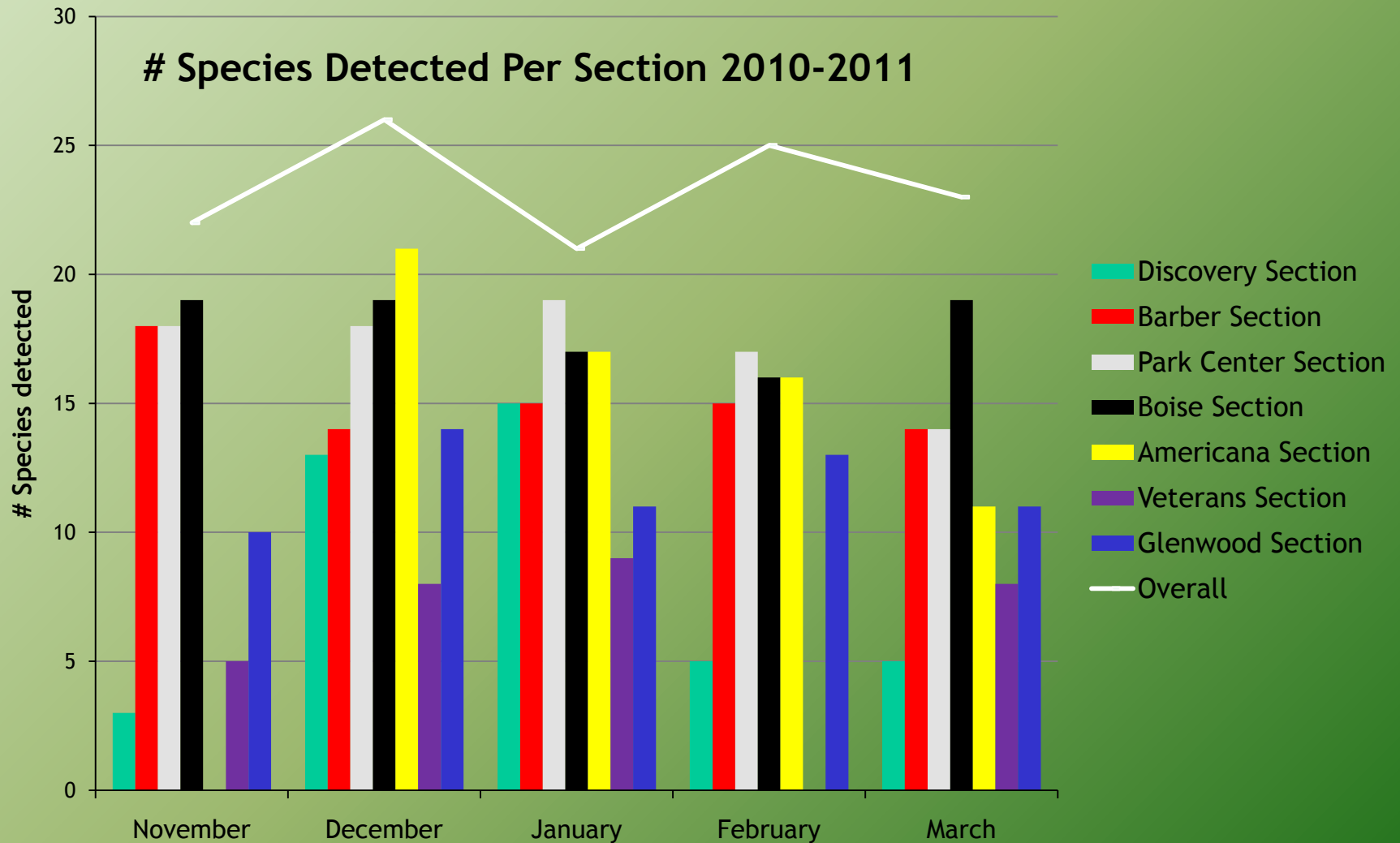
Bufflehead	Goldeneye, Barrow's	Mallard
Canvasback	Goldeneye, Common	Merganser, Common
Coot, American	Goose, Canada	Merganser, Hooded
Cormorant, Double-cr.	Grebe, Pied-billed	Scaup, Lesser
Duck, Ring-necked	Gull, California	Shoveler, Northern
Duck, Ruddy	Gull, Ring-billed	Snipe, Wilson's
Duck, Wood	Heron, Great Blue	Swan, Mute
Eagle, Bald	Killdeer	Teal, Green-winged
Gadwall	Kingfisher, Belted	Wigeon, American



# Survey Results

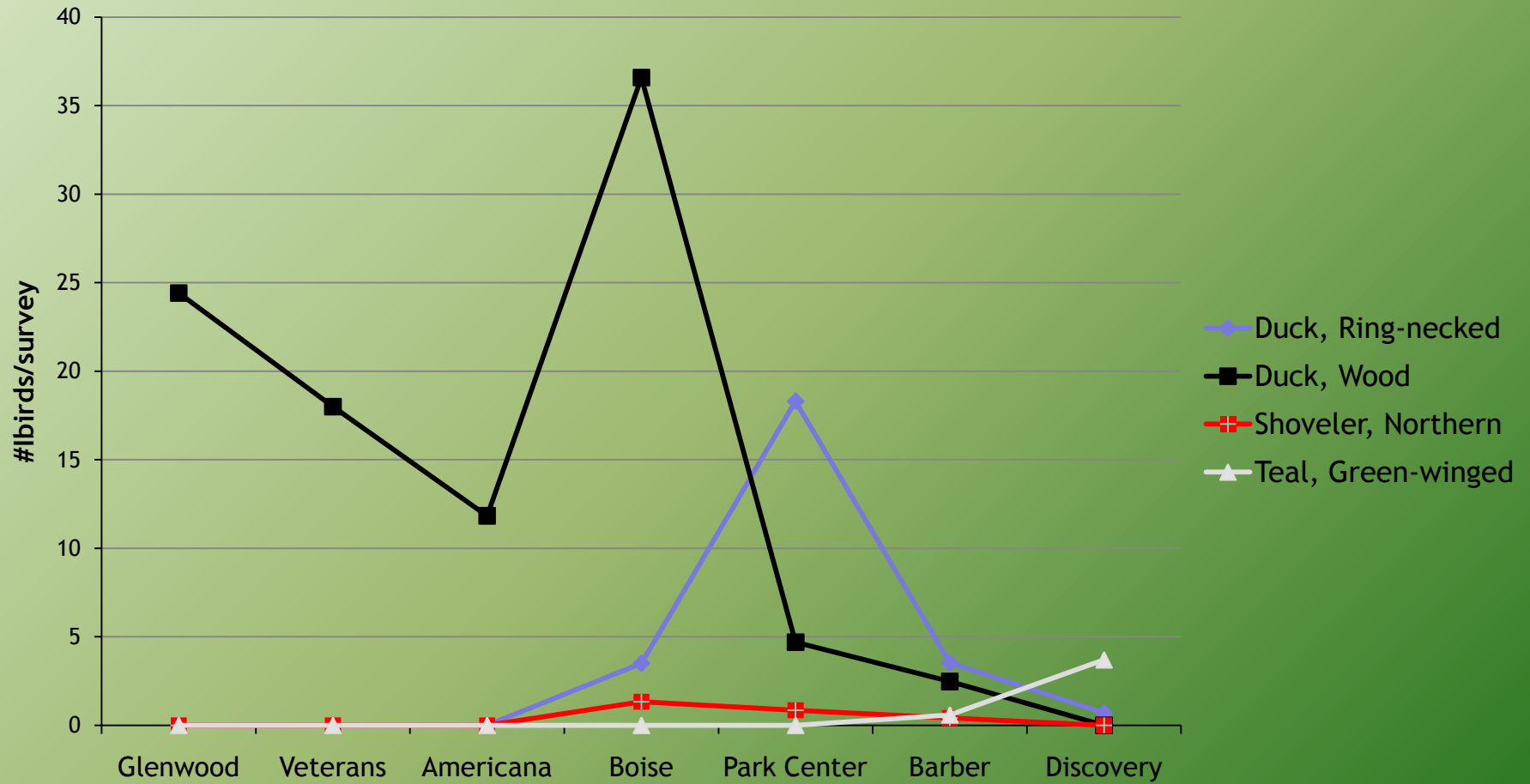


# Survey Results





# Survey Results



# Survey Protocol Refresher

- Time of Day:
  - Between 1/2 hour after sunrise and noon
- Team Effort!
  - 1 observer, 1 recorder (additional observers OK)
  - Solo OK, if necessary
- Weather: non-inclement weather
- Focus on aquatic birds ONLY
  - Potential impact on double-counting and less common birds
  - Losing track of time



# Idaho Waterbird Survey Form

E-mail form to [cmoulton@idfg.idaho.gov](mailto:cmoulton@idfg.idaho.gov) or mail to Colleen Moulton, IDFG - Wildlife Bureau, P.O. Box 25, Boise, ID 83707

Date: \_\_\_\_\_ Observer(s): \_\_\_\_\_

Site: \_\_\_\_\_ Section: \_\_\_\_\_

Start Time: \_\_\_\_\_ End Time: \_\_\_\_\_

	Tally	Total		Tally	Total
Avocet, American			Merganser, Common		
Bittern, American			----, Hooded		
Bufflehead			----, Red-breasted		
Canvasback			----, Unknown		
Coot, American			Night-Heron, Black-cr.		
Cormorant, Double-cr.			Pelican, American White		
Crane, Sandhill			Phalarope, Red-necked		
Curlew, Long-billed			----, Wilson's		
Dowitcher, Long-billed			----, Unknown		
Duck, Ring-necked			Pintail, Northern		
----, Ruddy			Plover, Semipalmated		
----, Wood			----, Snowy		
----, Unknown			----, Unknown		
Dunlin			Rail, Virginia		
Egret, Cattle			Redhead		
----, Great			Sandpiper, Bairds		
----, Snowy			----, Least		
Gadwall			----, Pectoral		
Godwit, Marbled			----, Semipalmated		
Goldeneye, Barrow's			----, Spotted		
----, Common			----, Western		
----, Unknown			----, Unknown		
Goose, Canada			Scaup, Greater		
----, Greater White-fr.			----, Lesser		
----, Snow			----, Unknown		
Grebe, Clark's			Shoveler, Northern		
----, Eared			Snipe, Wilson's (Common)		
----, Horned			Sora		
----, Pied-billed			Stilt, Black-necked		
----, Red-necked			Swan, Trumpeter		
----, Western			----, Tundra		
----, Small unknown			----, Unknown		
----, Clark's/Western			Teal, Blue-winged		
Gull, Bonaparte's			----, Cinnamon		
----, California			----, Green-winged		
----, Franklin's			----, Unknown		
----, Herring			Tern, Black		
----, Ring-billed			----, Caspian		
----, Unknown			----, Common		
Heron, Great Blue			----, Forster's		
----, Green			----, Unknown		
Ibis, White-faced			Wigeon, American		
Killdeer			Willet		
Loon, Common			Yellowlegs, Greater		
----, Pacific			----, Lesser		
----, Unknown					
Mallard					

\* If young of the year are present, denote these individuals with a circle; example: To show 30 adult and 5 young Canada Geese you would enter 30, 5 (with the 5 circled) in the "Total" column

Additional comments: (e.g., extreme survey conditions involving very high winds or very high precip)

## Counting and Recording

- Bald eagles and belted kingfishers
- rare species
- Stop only long enough to count
- Identify to species level when possible
- Fill out datasheet thoroughly and legibly

# Submitting Data and Questions

- Datasheet submitted to Colleen Moulton
  - Prepaid envelopes
  - Scanned and emailed OK too
- Protocol Questions?
  - Colleen Moulton; 287-2751  
colleen.moulton@idfg.idaho.gov
- Other Questions?
  - Deniz Aygen; 287-2750  
deniz.aygen@idfg.idaho.gov



Thanks and Have FUN!

We'd love to see photos from your survey!

